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Date: 02/22/2010 11:17 AM

Subject: Alternative analysis flowchart

## Hi Everyone;

Here is the long-awaited alternatives analysis flowchart. It prints out nicely on 11X17 paper so you don't have to go blind reviewing it.

Please give me feedback, anytime between now and up to and including our meeting on the 8th March. Probably the best way to check it is think up some scenarios and see if they will run all the way to some conclusion.

Paul and Dave, I would really appreciate your viewpoints since you now how this will affect funding of sewer upgrades. I would really be interested to see how this approach would work if somebody was planning to get certain grants but then those grants fell through.

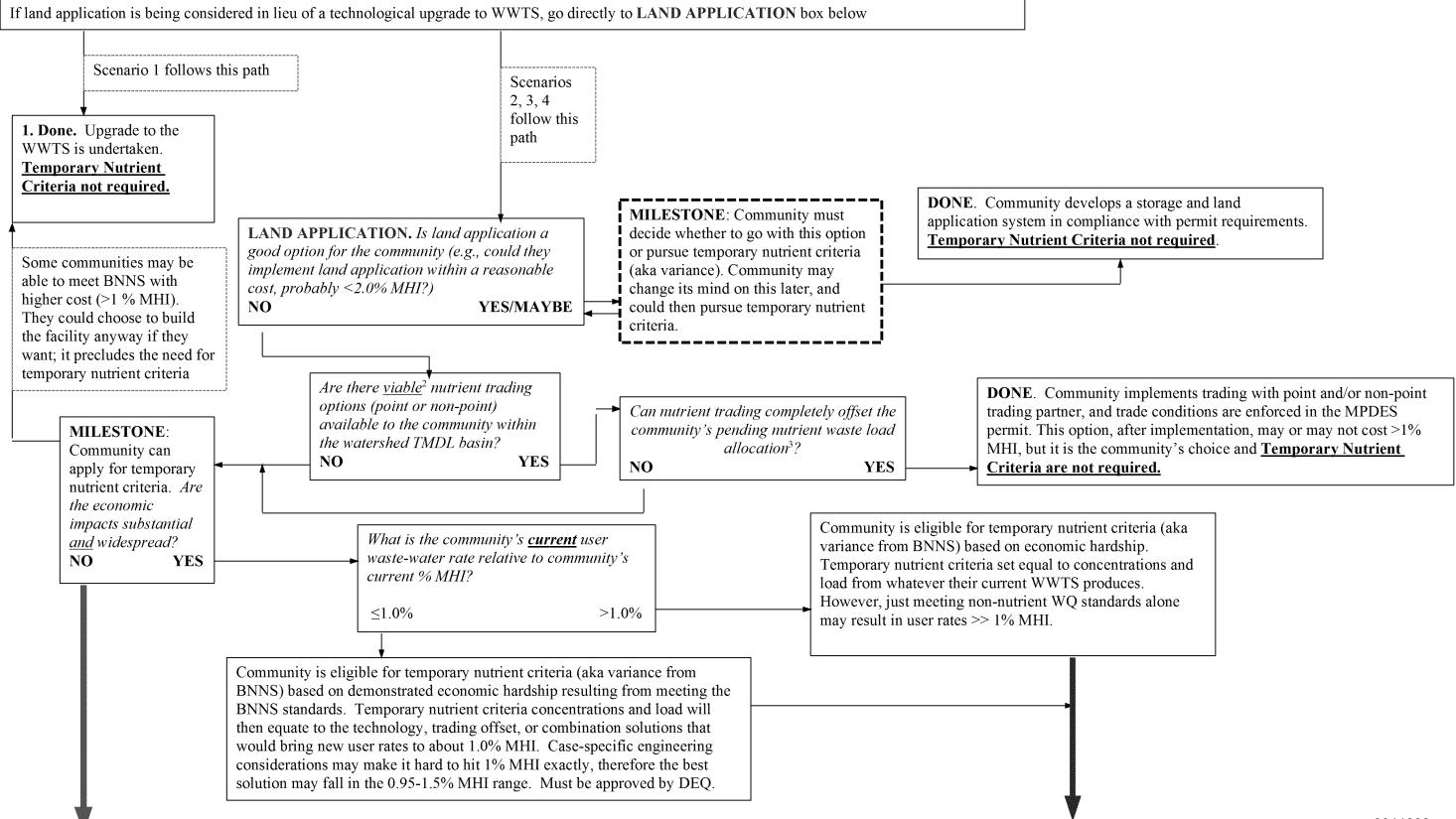
Thank you for all your help,

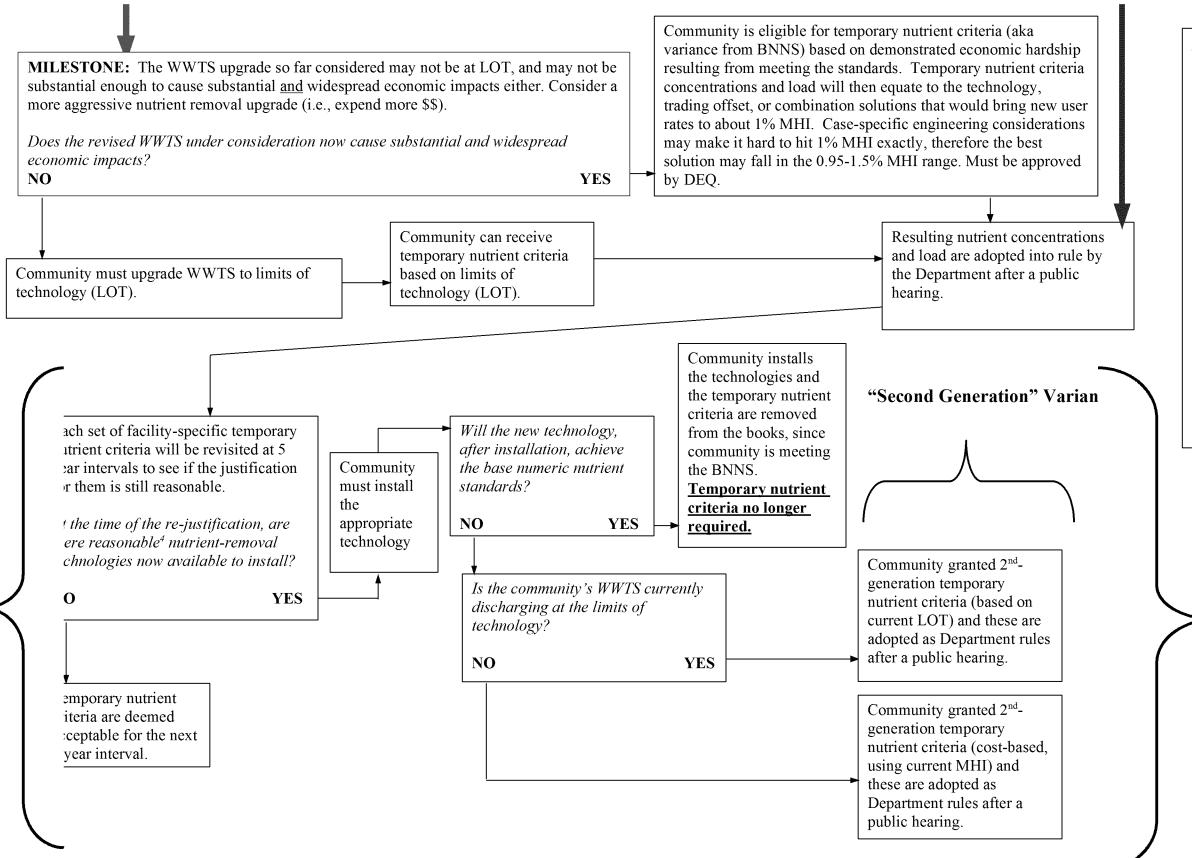
Mike

## START HERE

Undertake PER for community. Determine the WWTS upgrade <u>necessary to comply with applicable standards including, if they can be met, base numeric nutrient standards (BNNS)</u>. It is only necessary to consider technologies up to DEQ's defined limits of technology. The designed facility<sup>1</sup>:

**1.** Can comply, costs  $\leq 1\%$  MHI **2.** Can comply, costs  $\geq 1\%$  MHI **3.** Cannot comply, costs  $\geq 1\%$  MHI **4.** Cannot comply,  $\leq 1\%$  MHI





## **FOOTNOTES**

- 1. Cost in each of the scenarios refers to current user rates + additional rates after upgrade divided by community's median household income.
- 2. "Viable" means available and cost affective.
- 3. Both permits and the TMDL will set the waste load allocation as the WWTS's load that will meet the base numeric nutrient standards at the end of the mixing zone (or end of pipe if no dilution is available).
- 4. "Reasonable" means tested, readily installed, and not extremely expensive, i.e., the technology will not result in new user rates >> 1.0% of their current MHI.

Actions falling within these large brackets will re-iterate until (a) the current (i.e., 1<sup>st</sup> or 2<sup>nd</sup> generation) set of temporary nutrient criteria sunset at 20 years, at which point DEQ will have to take a hard look and see if base numeric nutrient standards and the beneficial uses they are set to protect are really achievable in the waterbodies in question; or (B) base numeric nutrient standards have been achieved and the temporary nutrient criteria are no longer in place.